



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

020457 LM61/1103  
ANTONELLI TERRY STOUT KRALIS  
1300 NORTH SEVENTEENTH STREET SUITE 1800  
ARLINGTON VA 22209

APPLICATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
020457	11/19/96	803	STORM, B	2741 11/02/98

First Named  
Applicant

TITLE OF  
INVENTION

LEE, 35 USC 154 (b) term ext. - 0 Days.

PHONEME DIVIDING METHOD USING MULTILEVEL NEURAL NETWORK

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEES DUE	DATE DUE
2 007.35020X00	704 254.000	L11	UTILITY	YES	\$660.00	02/03/99

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT.**  
**PROSECUTION ON THE MERITS IS CLOSED.**

**THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.**

**HOW TO RESPOND TO THIS NOTICE:**

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
- B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.

II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give application number and batch number.  
Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

***IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.***

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Washington, DC 20231

Notice of Allowance

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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08/746,981, FILED 19796, OWNER/ and issue Fee due or filed 10/08/98, 087,35020X00

Examiner's comment is relative to Application No. 020457

EM61/1103

EXAMINER

ANTONELLI, TERRY, STOUT, KRAUS

1300 NORTH SEVENTEENTH STREET SUITE 1800  
ARLINGTON VA 22209

STORM, D

ART UNIT

PAPER NUMBER

Notice of Allowance is a part of a claim for a design priority under 35 U.S.C. § 171 (P.S.)

1. (1) Search & (1) Prior Art or the CERTIFIED copies of the priority documents to be submitted  
received.

2741  
DATE MAILED:

2. Priority is claimed in the following Serial Number:

3. Received in this national stage application from the International Bureau (PCT) on 11/03/98  
4. Attached copies not received.

**Please find below and/or attached an Office communication concerning this application or proceeding.**

5. A LIMITED STATUTORY PERIOD FOR RESPONSE to concern a three month period  
6. 3 MONTHS FROM THE DATE MAILED of this Office action. Failure to timely comply will result in  
7. DISMANTLING of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

8. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION PTO-892, which states  
9. the both a declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.

10. Applicant MUST submit NEW FORMAL DRAWINGS

11. because the originally filed drawings were declared by applicant to be informal

12. including changes required by the Notice of Draftsperson's Patent Drawing Review PTO-946, attached hereto or  
13. in Paper No.

14. including changes required by the proposed drawing correction filed on 11/03/98, which has been  
15. approved by the examiner.

16. including changes required by the attached Examiner's Amendment/Comment.

17. Identifying indicia such as the application number (see 37 CFR 1.84(e)) should be written on the reverse side of the  
18. drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official  
19. Draftsperson.

20. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

21. A response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER(S) (SERIAL  
22. CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee due, the ISSUE BATCH NUMBER  
23. and DATE of the NOTICE OF ALLOWANCE should also be included.

24. Applicant(s)

25. List of References Cited, PTO-892

26. Information Disclosure Statement(s), PTO-1449, Paper No(s).

27. Notice of Draftsperson's Patent Drawing Review, PTO-948

28. Notice of Informal Patent Application, PTO-152

29. Interview Summary, PTO-413

30. Examiner's Amendment/Comment

31. Examiner's Comment Regarding Requirement for Deposit of Biological Material

32. Examiner's Statement of Reasons for Allowance

<b>Notice of Allowability</b>	Application No. <b>08/746,981</b>	Applicant(s) <b>Lee et al.</b>
	Examiner <b>Donald L. Storm</b>	Group Art Unit <b>2741</b>

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course.

This communication is responsive to Applicant's correspondence filed October 19, 1998

The allowed claim(s) is/are 1, 2, and 4

The drawings filed on \_\_\_\_\_ are acceptable.

Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

All  Some\*  None of the CERTIFIED copies of the priority documents have been received.

received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.

Applicant MUST submit NEW FORMAL DRAWINGS

because the originally filed drawings were declared by applicant to be informal.

including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached hereto or to Paper No. \_\_\_\_\_.

including changes required by the proposed drawing correction filed on Jun 17, 1998, which has been approved by the examiner.

including changes required by the attached Examiner's Amendment/Comment.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.

#### Attachment(s)

- Notice of References Cited, PTO-892
- Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_
- Notice of Draftsperson's Patent Drawing Review, PTO-948
- Notice of Informal Patent Application, PTO-152
- Interview Summary, PTO-413
- Examiner's Amendment/Comment
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- Examiner's Statement of Reasons for Allowance

## REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:
  - a. Regarding claim 1, and by dependency claims 2 and 4, normalizing the maximum and minimum of inter-frame characteristic vectors and finding the border by MLP based on the frame's inter-frame characteristic vector, taken as a whole with other claim limitations, was not anticipated or made obvious by prior art known to the Examiner.
  - b. The replacement declaration has been received with the AMENDMENT AFTER FINAL filed October 19, 1998 (paper 8). The objection to the declaration is removed.
  - c. The Applicant's arguments in AMENDMENT AFTER FINAL filed October 19, 1998 (paper 8) with respect to rejection of claim 4 under 35 USC § 112, the objection to the drawings, and the objection to the specification in the Office Action mailed July 17, 1998 (paper 7) are persuasive. Accordingly, the rejection and objections are removed.
  - d. The translation has been received with the AMENDMENT AFTER FINAL filed October 19, 1998, and it perfects the Applicant's claim for priority. Accordingly, the rejection under 35 USC 102(a) is removed.
  - e. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."



DAVID R. HUDSPETH  
SUPERVISORY PATENT EXAMINER  
GROUP 2700